IFW

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

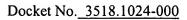
AUTHORIZATION OF AGENT AND CORRESPONDENCE ADDRESS

Application Number	10/723,250
Filing Date	November 26, 2003
First Named Inventor	Thomas M. DiMauro
Confirmation Number	6059
Group Art Unit	1617
Examiner Name	Unknown
Attorney Docket Number	3518.1024-000

Title

LOCAL INTRAOSSEOUS ADMINISTRATION OF BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS, AND DEVICES THEREFOR

	I/We hereby a	appoint
	[X] the atto	orneys/agents associated with Customer No. 021005
	[] Practiti	oner(s) named below:
		orneys/agents to prosecute the application identified above, including any continuation or divisional hereof, and to transact all business in the United States Patent and Trademark Office connected
	The correspo	ndence address for the above-identified application is:
	[X] Custon	ner Number 021005
	Hamilto	on, Brook, Smith & Reynolds, P.C.
	530 Vir	ginia Road
	P.O. B	ox 9133
	Conco	rd, Massachusetts 01742-9133
	[] Other_	
	Please direct	all telephone calls and facsimiles to:
1	Name <u>Deird</u>	re E. Sanders, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136
	I am the:	
	[] Applica	ant/Inventor.
	[X] Authori Statem	ized representative of the Assignee, DePuy Spine, Inc., of the entire interest. See 37 C.F.R. § 3.71. A ent under 37 C.F.R. §3.73(b) is enclosed.
	[] Authori	ized representative of the Assignee, [], together with [], of the entire interest. A Statement under .R. § 3.73(b) is enclosed.
		SIGNATURE of Applicant or Assignee of Record
	Name & Title	Thomas M. DiMauro, Esq. Assistant Secretary
	Signature	Thoras M D Mars





STATEMENT UNDER 37 C.F.R. § 3.73(b)

Inventor	s: Thoma	as M. DiMauro, Mohamed Attawia, Hass	san Serhan, Melissa Grace, Michael Slivka, Thomas G. Ferro, Vivek N.
Shenoy,	Alonzo l	D. Cook and Scott Bruder	
Applica	tion No.:	10/723,250	Filed Date: November 26, 2003
For: LO	CAL INT	TRAOSSEOUS ADMINISTRATION O	F BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS,
AND D	EVICES	THEREFOR	
DePuy	Spine, I	Inc. (Name of Assignee)	, a corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
		(Name of Assignee)	(Type of Assignce, e.g., corporation, partnership, university, government agency, etc.)
states th	at it is		
Α.	[X]	the assignee of the entire right, title and	interest in the patent application identified above; or
B.	[]	an assignee together with [] of above.	f the entire right, title and interest in the patent application identified
The righ	it, title an	nd interest of the above-named assignee i	n the patent application identified above is established by virtue of:
A. [X]			pplication identified above. The assignment was recorded in the Patent rame, or a copy thereof is attached.
OR			
B.[]	A chain	of title from the inventor(s) of the paten	t application identified above, to the current assignee as shown below:
	1.	From: To The document was recorded in the Unit Reel, Frame	ted States Patent and Trademark Office at, or a copy thereof is attached.
	2.	From:To	·
		The document was recorded in the Unit	ed States Patent and Trademark Office at
		Reel, Frame	, or a copy thereof is attached.
	3.		:
		Reel, Frame	ed States Patent and Trademark Office at, or a copy thereof is attached.
	[] Ado	ditional documents in the chain of title a	
The und	ersigned	(whose title is supplied below) is author	ized to act on behalf of the assignee.
Date:	7	. 9-oy	
Name: T	homas M	M. DiMauro, Esq.	
Title:A	Ssistant	Secretary	
Signatur	e: I	roman M. D. Mario	·

<u>Joint</u>

ASSIGNMENT

WHEREAS, we, Thomas M. DiMauro, Mohamed Attawia, Hassan Serhan, Melissa Grace, Michael Slivka, Thomas G. Ferro, Vivek N. Shenoy, Alonzo D. Cook and Scott Bruder, have invented a certain improvement in LOCAL INTRAOSSEOUS ADMINISTRATION OF BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS, AND DEVICES THEREFOR described in an application for Patent,

l J	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/723,250, filed November 26, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at 325 **Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Manual Dillians
State/Commonwealth Thomas M. DiMauro
-
of <u>Massachusetts</u>
County of Bristol
On this day of
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Amy Schick Notary Public
Amy Schick (print name)
My Commission expires 1/21/2011

Inventor's Signature:
State/Commonwealth Mohamed Attawia
of Massachusetts
County of Bristol
On this 24th day of My, 20 H, before me, the undersigned notary public, personally appeared Mohamed Attawia,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Any Shill Notary Public
Amy Schick (print name)
My Commission expires 1 121. 1201
Inventor's Signature:
State/Commonwealth CHassan Serhan
ofMassachusetts
County of Bristol
On this day of, 20, 20, before me, the undersigned notary public, personally appeared Hassan Serhan,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
o be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
SEAL) Amy Schick Notary Public
AMY SCHICK (print name)
My Commission expires 1 /21 / 2011

Inventor's Signature:	Misse Siece
State/Commonwealth	Melissa Grace
of <u>Massachue</u>	<u>set1s</u>
County of Bristol	
On this <u>20th</u> day on this <u>20th</u> day of notary public, personally app	of May , $20 04$, before me, the undersigned peared Melissa Grace,
personally known to r	me, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Ams Schiek - Notary Public
	Amy Schick (print name)
	My Commission expires / / 21 / 2011
Inventor's Signature:	Schull_
State/Commonwealth	Michael Slivka
of <u>Massachuset</u>	ks ·/
County of Bristo	
On this 2/3r day of notary public, personally appear	May , 2004, before me, the undersigned
personally known to me	e, or
proved to me through sa	atisfactory evidence of identification, which was
to be the person whose name wacknowledged that he/she signed	was signed on the foregoing instrument in my presence, and ed the foregoing instrument as his/her free act and deed.
(SEAL)	Amy Schick Notary Public
	AMY SCHICK (print name)
N	My Commission expires 1 / 21 / 2011

Thomas G. Ferro
· · · · · · · · · · · · · · · · · · ·
y of, 20, before me, the undersigned appeared Thomas G. Ferro,
o me, or
gh satisfactory evidence of identification, which was
me was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
Notary Public
(print name)
My Commission expires//
Vivek N. Shenoy
<u>· </u>
of, 20, before me, the undersigned peared Vivek N. Shenoy,
me, or
satisfactory evidence of identification, which was
e was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
Notary Public
(print name)
My Commission expires//

Inventor's Signature: Along D. Cook	
State/Commonwealth	
of Massachusetts	
County of Bristol	
On this day of	rsigned
personally known to me, or	
proved to me through satisfactory evidence of identification, which was	
to be the person whose name was signed on the foregoing instrument in my presence, a acknowledged that he/she signed the foregoing instrument as his/her free act and deed.	nd
(SEAL) Amer Schuck Notary Public	
Amu Schick (print name)	
My Commission expires / 121 / 2011	
Inventorio Signatura Constituto (1/1)	
Inventor's Signature: Scott Bruder	
State/Commonwealth	
of <u>Massachusetts</u>	
County of Bristol	-
On this day of May, 20_04_, before me, the unders notary public, personally appeared Scott/Bruder,	igned
personally known to me, or	
proved to me through satisfactory evidence of identification, which was	
o be the person whose name was signed on the foregoing instrument in my presence, an acknowledged that he/she signed the foregoing instrument as his/her free act and deed.	d
SEAL) Amy Schick Notary Public	
AMY SCHICK (print name)	
My Commission expires 1 /21 / 2011	

COPY

Docket No. 3518.1024-000

Joint

<u>ASSIGNMENT</u>

WHEREAS, wc, Thomas M. DiMauro, Mohamed Attawia, Hassan Serhan, Melissa Grace, Michael Slivka, Thomas G. Ferro, Vivek N. Shenoy, Alonzo D. Cook and Scott Bruder, have invented a certain improvement in LOCAL INTRAOSSEOUS ADMINISTRATION OF BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS, AND DEVICES THEREFOR described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/723,250, filed November 26, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, DePuy Spine, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Ohio, and having a usual place of business at 325 Paramount Drive, Raynham, Mussachusetts 02767-0350 desires to acquire an interest therein in accordance with agreements duly entered into with us;

Docket No. 3518.1024-000

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY W date set forth below.	HEREOF, we have hereu	nto set our hands	s and affixed our seals the
Inventor's Signature:			
State/Commonwealth of	The	mas M. DiMaur	-
County of			
On this day o notary public, personally app	eared Thomas M. DiMar	_, 20, befo	re me, the undersigned
personally known to m	e, or atisfactory evidence of id	lentification, whi	ch was
o be the person whose name acknowledged that he/she sign	was signed on the foregoi	ng instrument	
SEAL)		Notary I	·
<u> </u>	My Commission ovalua	(print na	me)
	My Commission expires	/	·

-3-

	Docket No. 3518.1024
Inventor's Signature:	Mohamed & Maria
State/Commonwealth	Mohamed Attawia
of <u>Massachi</u>	1150+K
County of Bris-	
On this 7th da	ay of <u>June</u> , 20 <u>04</u> , before me, the undersigne appeared Mohamed Attawia,
personally known t	to me, or
proved to me throu	ngh satisfactory evidence of identification, which was
to be the person whose na "acknowledged that he/she	me was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
YSEAL	Ame School Notary Public
	AMY Schick (print name)
	My Commission expires 1 /21/2011
Inventor's Signature:	
State/Commonwealth	Hassan Serhan
of	
County of	
	of, 20, before me, the undersigned
notary public, personally ap	ppeared Hassan Serhan,
personally known to	o me, or
proved to me throug	th satisfactory evidence of identification, which was
to be the person whose namacknowledged that he/she s	ne was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
to be the person whose namacknowledged that he/she s	ne was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed. Notary Public
acknowledged that he/she s	signed the foregoing instrument as his/her free act and deed.

-4-

Docket No. 3518.1024-000 Inventor's Signature: Melissa Grace State/Commonwealth County of On this ______, 20_____, before me, the undersigned notary public, personally appeared Melissa Grace, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires Inventor's Signature: Michael Slivka State/Commonwealth County of On this ______ day of ______, 20 ____, before me, the undersigned notary public, personally appeared Michael Slivka, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires ____/___/

-5-

Docket No. 3518.1024-000 Inventor's Signature: Thomas G. Ferro State/Commonwealth On this ______ day of ______, 20 _____, before me, the undersigned notary public, personally appeared Thomas G. Ferro, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires ____/__/ Inventor's Signature: Vivek N. Shenoy State/Commonwealth County of On this ______ day of ______, 20____, before me, the undersigned notary public, personally appeared Vivek N. Shenoy, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires ____/ /

-6-

•		Docket No. 3518.1024-000
Inventor's Signature:		
State/Commonwealth		Alonzo D. Cook
of		
County of		_
On this day notary public, personally a	of	, 20, before me, the undersigned ok,
personally known to		
proved to me through	th satisfactory evidence	e of identification, which was
to be the person whose nan acknowledged that he/she s	ne was signed on the fo	oregoing instrument in my presence, and strument as his/her free act and deed.
(SEAL)		Notary Public
•	_	(print name)
	My Commission ex	pires//
Inventor's Signature:		
State/Commonwealth		Scott Bruder
County of		
On this day on this day on this day on the contact of the conta		, 20, before me, the undersigned
personally known to	me, ór	
proved to me through	satisfactory evidence	of identification, which was
o be the person whose name cknowledged that he/she sig	e was signed on the for- gned the foregoing inst	egoing instrument in my presence, and rument as his/her free act and deed.
SEAL)		Notary Public
		(print name)
	My Commission exp	ircs//



ASSIGNMENT

<u>Joint</u>

WHEREAS, we, Thomas M. DiMauro, Mohamed Attawia, Hassan Serhan, Melissa Grace, Michael Slivka, Thomas G. Ferro, Vivek N. Shenoy, Alonzo D. Cook and Scott Bruder, have invented a certain improvement in LOCAL INTRAOSSEOUS ADMINISTRATION OF BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS, AND DEVICES THEREFOR described in an application for Patent,

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[]	is about to be filed in the United States Patent Office as a Provisional Application;
[X]	the specification of which is United States Application No. 10/723,250, filed November 26, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].
	·

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at 325 **Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below. Inventor's Signature: Thomas M. DiMauro State/Commonwealth of County of On this ______ day of ______, 20____, before me, the undersigned notary public, personally appeared Thomas M. DiMauro, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires

Inventor's Signature:	
State/Commonwealth	Mohamed Attawia
County of	· · · · · · · · · · · · · · · · · · ·
	y of, 20, before me, the undersigned ppeared Mohamed Attawia,
personally known to	
	gh satisfactory evidence of identification, which was
to be the person whose nar	ne was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Hassan Serhan
of	
County of	
On this day notary public, personally ap	of, 20, before me, the undersigned peared Hassan Serhan,
personally known to	me, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she si	e was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
SEAL)	Notary Public
SEAL)	Notary Public (print name)
SEAL)	

Inventor's Signature:	
State/Commonwealth	Melissa Grace
State/Commonwealth	
of	_
County of	<u>-</u>
On this day of notary public, personally appeared Melissa Grace	, 20, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evidence	of identification, which was
to be the person whose name was signed on the for acknowledged that he/she signed the foregoing ins	regoing instrument in my presence, and strument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
My Commission exp	pires / / .
Inventor's Signature:	•
State/Commonwealth	Michael Slivka -
County of	
On this day of notary public, personally appeared Michael Slivka,	, 20, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evidence of	of identification, which was
to be the person whose name was signed on the foreacknowledged that he/she signed the foregoing instr	egoing instrument in my presence, and rument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)

Inventor's Signature:	homas of term
State/Commonwealth	Thomas G. Ferro
of Indiana	
County of Koscius Ko	
On this <u>2546</u> day of <u>Margorian day of Margorian day of </u>	homas G. Ferro,
personally known to me, or	
proved to me through satisfact	ory evidence of identification, which was
acknowledged that he/she signed the	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public Sea Brace (print name)
X a	ren Brace (print name)
	mmission expires 2/28/2008
Inventor's Signature:	·
	Vivek N. Shenoy
State/Commonwealth of	•
County of	
	·
	, 20, before me, the undersigned ek N. Shenoy,
On this day of	, 20, before me, the undersigned ek N. Shenoy,
On this day of notary public, personally appeared Viv personally known to me, or	, 20, before me, the undersigned ek N. Shenoy,
On this day of notary public, personally appeared Viv personally known to me, or proved to me through satisfactor to be the person whose name was signed.	ek N. Shenoy,
On this day of notary public, personally appeared Viv personally known to me, or proved to me through satisfactor to be the person whose name was signed.	ry evidence of identification, which was
On this day of notary public, personally appeared Viv personally known to me, or proved to me through satisfactor to be the person whose name was signed acknowledged that he/she signed the fo	ry evidence of identification, which was ed on the foregoing instrument in my presence, and regoing instrument as his/her free act and deed.

Inventor's Signature:		
State/Commonwealth		Alonzo D. Cook
of		
County of		
On thisnotary public, personal	day ofly appeared Alonzo D. Co	ook, 20, before me, the undersigned
personally know	n to me, or	
	rough satisfactory evidenc	e of identification, which was
to be the person whose acknowledged that he/s	name was signed on the fine he signed the foregoing in	oregoing instrument in my presence, and astrument as his/her free act and deed.
(SEAL) -		Notary Public
	,	(print name)
	My Commission ex	xpires/
Inventor's Signature:		
		Scott Bruder
State/Commonwealth of		
County of		-
		-
on this	appeared Scott Bruder,	, 20, before me, the undersigned
personally known	to me, or	
1 1	ough satisfactory evidence	of identification, which was
o be the person whose n	ame was signed on the for	regoing instrument in my presence, and trument as his/her free act and deed.
SEAL)		Notary Public
		(print name)
	My Commission exp	
	•	

Joint

ASSIGNMENT

WHEREAS, we, Thomas M. DiMauro, Mohamed Attawia, Hassan Serhan, Melissa Grace, Michael Slivka, Thomas G. Ferro, Vivek N. Shenoy, Alonzo D. Cook and Scott Bruder, have invented a certain improvement in LOCAL INTRAOSSEOUS ADMINISTRATION OF BONE FORMING AGENTS AND ANTI-RESORPTIVE AGENTS, AND DEVICES THEREFOR described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application;
[X]	the specification of which is United States Application No. 10/723,250, filed November 26, 2003;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, DePuy Spine, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Ohio, and having a usual place of business at 325 Paramount Drive, Raynham, Massachusetts 02767-0350 desires to acquire an interest therein in accordance with agreements duly entered into with us;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below. Inventor's Signature: Thomas M. DiMauro State/Commonwealth County of On this _____ day of ______, 20____, before me, the undersigned notary public, personally appeared Thomas M. DiMauro, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public (print name) My Commission expires ____/___/

Inventor's Signature:	
State/Commonwealth	Mohamed Attawia
On this day notary public, personally ap	of, 20, before me, the undersigned opeared Mohamed Attawia,
personally known to	me, or
proved to me through	h satisfactory evidence of identification, which was
to be the person whose nam acknowledged that he/she si	e was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Hassan Serhan
_	
County of .	
	f, 20 before me, the undersioned
personally known to n	
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sign	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
SEAL)	Notary Public
	(print name)
_	My Commission expires//

Inventor's Signature:		
State/Commonwealth		Melissa Grace
County of		- .
		, 20, before me, the undersigned
notary public, personally a	ppeared Melissa Grace	, before me, the undersigned
personally known to	me, or	
proved to me throug	h satisfactory evidence	of identification, which was
to be the person whose nam acknowledged that he/she s	ne was signed on the for igned the foregoing ins	regoing instrument in my presence, and trument as his/her free act and deed.
(SEAL)		Notary Public
		(print name)
	My Commission exp	ires/
Inventor's Signature:		
State/Commonwealth		Michael Slivka
		•
County of		
on this day contary public, personally app	ot beared Michael Slivka,	, 20, before me, the undersigned
personally known to n	ne, or	
proved to me through	satisfactory evidence of	f identification, which was
be the person whose name cknowledged that he/she sig	was signed on the foreg	going instrument in my presence, and ament as his/her free act and deed.
SEAL)		Notary Public
. •		(print name)
-	My Commission expir	
	1	

Inventor's Signature:	
	Thomas G. Ferro
State/Commonwealth	
of	· ·
County of	· ·
On thisday ofnotary public, personally appeared Thomas	, 20, before me, the undersigned G. Ferro,
personally known to me, or	
proved to me through satisfactory ev	idence of identification, which was
to be the person whose name was signed on acknowledged that he/she signed the forego	the foregoing instrument in my presence, and ing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
My Commiss	ion expires//
_	
Inventor's Signature:	KN. Shurey.
State/Commonwealth	Vivek N. Shenoy
of California	V
County of <u>Vanta Clara</u>	· · · · · · · · · · · · · · · · · · ·
On this <u>25</u> day of <u>May</u> notary public, personally appeared Vivek N.	Shenoy, 20 04, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evice CA DRIVER LICENSE E	lence of identification, which was
to be the person whose name was signed on the acknowledged that he/she signed the foregoin	he foregoing instrument in my presence, and ag instrument as his/her free act and deed.
THE COMM ENGINE IN S BROOK	Notary Public WIERCZ (print name) on expires (Jan 1 5 1 7008

Inventor's Signature:	
State/Commonwealth	Alonzo D. Cook
of	
On this d	day of, 20, before me, the undersigned appeared Alonzo D. Cook,
personally known	to me, or
proved to me thro	ough satisfactory evidence of identification, which was
to be the person whose nacknowledged that he/she	ame was signed on the foregoing instrument in my presence, and e signed the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
·	My Commission expires/
In the Control of Control	
Inventor's Signature:	Scott-Bruder
State/Commonwealth	Scote-Di uuci
of	
County of	_
On this da notary public, personally a	y of, 20, before me, the undersigned appeared Scott Bruder,
personally known t	o me, or
proved to me throu	gh satisfactory evidence of identification, which was
o be the person whose nancknowledged that he/she	me was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
SEAL)	Notary Public
315/115)	
	(print name)